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Fig.1

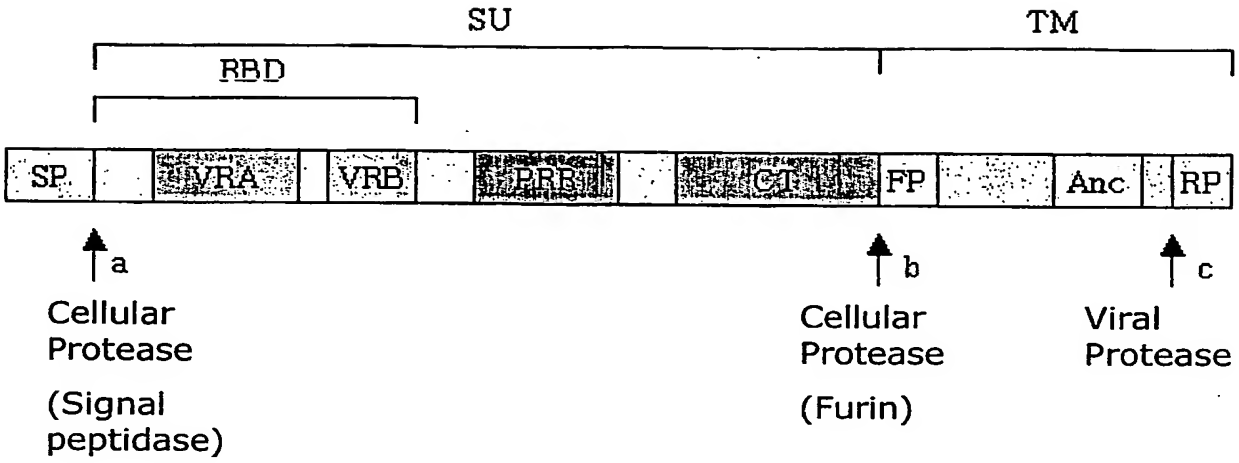
SU
TM
RBD
SP
VRA
VRB
PRR
CT
FP
Anc
RP
a
b
c
Cellular Protease (Signal peptidase)
Cellular Protease (Furin)
Viral Protease

Fig. 2

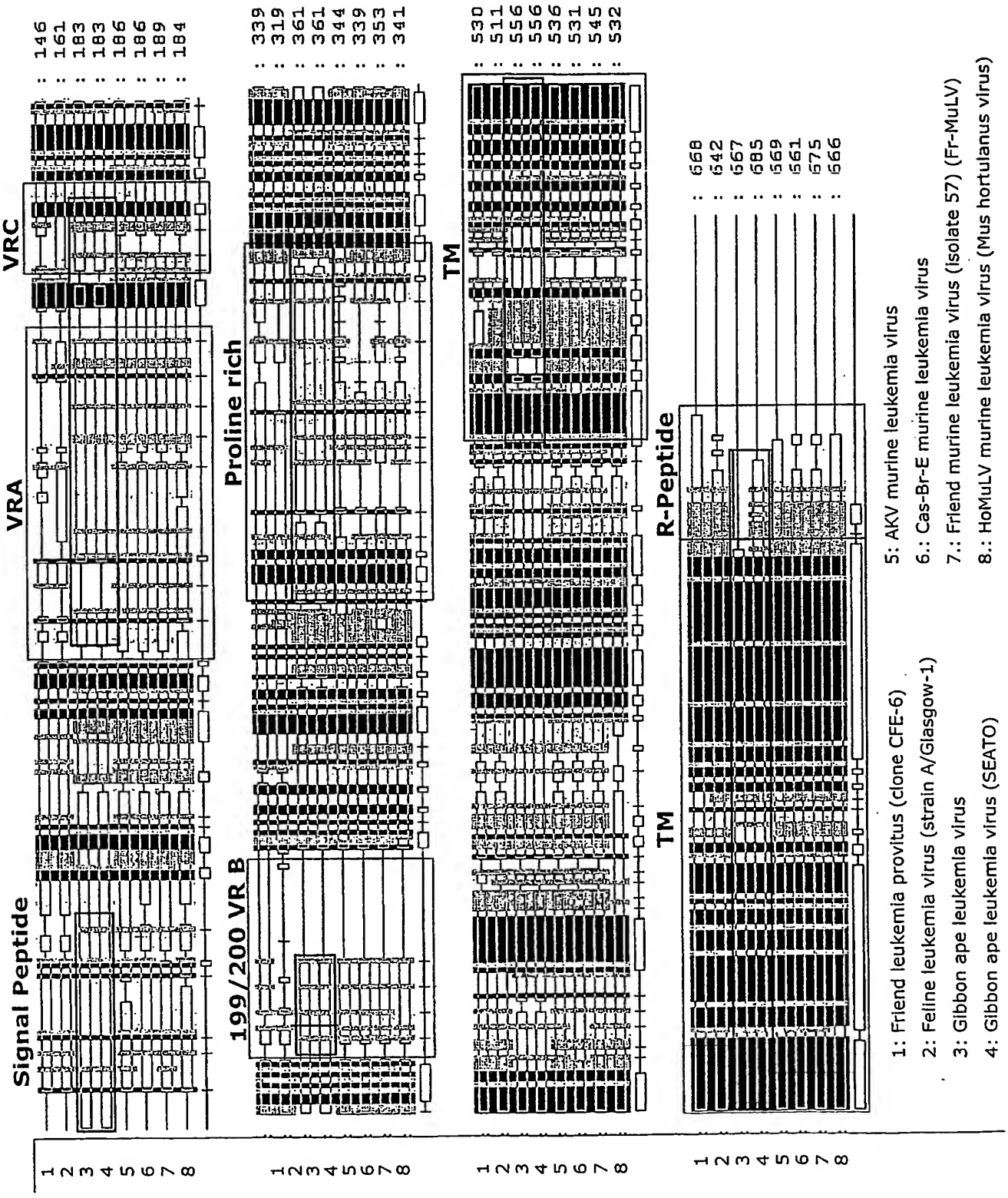
146
161
183
183
186
186
189
184
339
319
361
361
344
339
353
341
530
511
556
556
536
531
545
532
668
642
667
685
669
661
675
666
VRC
VRA
Signal Peptide
Proline rich
199/200 VR B
TM
R-Peptide
TM
1 2 3 4 5 6 7 8
1: Friend leukemia provitus (clone CFE-6)
2: Feline leukemia virus (strain A/Glasgow-1)
3: Gibbon ape leukemia virus
4: Gibbon ape leukemia virus (SEATO)
5: AKV murine leukemia virus
6.: Cas-Br-E murine leukemia virus
7.: Friend murine leukemia virus (isolate 57) (Fr-MuLV)
8.: HoMuLV murine leukemia virus (Mus hortulanus virus)

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Fig. 3

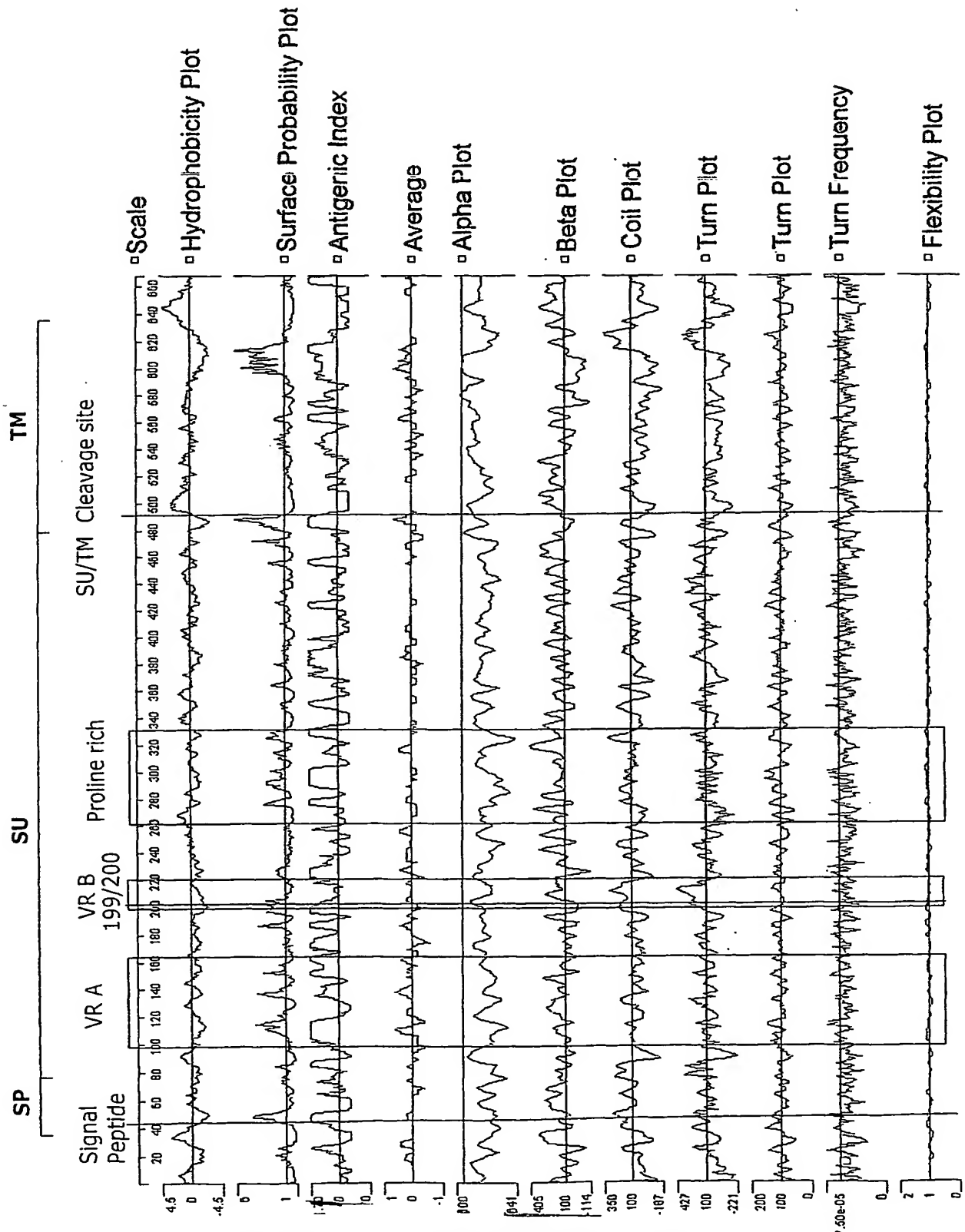
SP
SU
TM
Signal Peptide
VR A
VR B 199/200
Proline rich
SU/TM Cleavage site
Scale
Hydrophobicity Plot
Surface Probability Plot
Antigenic Index
Average
Alpha Plot
Beta Plot
Coil Plot
Turn Plot
Turn Plot
Turn Frequency
Flexibility Plot

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Fig. 4

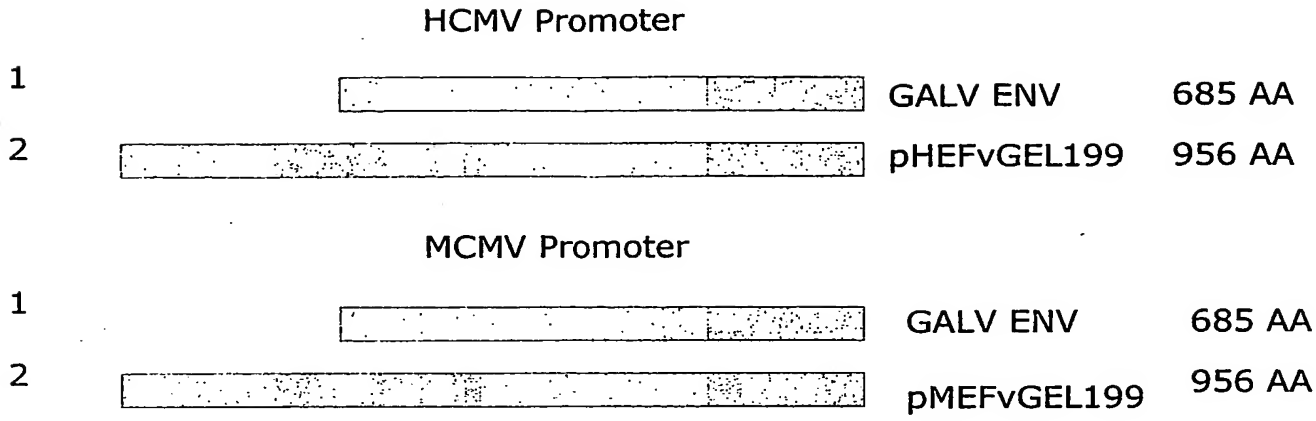
HCMV Promoter
1
GALV ENV
685 AA
2
pHEFvGEL199
956 AA
MCMV Promoter
1
GALV ENV
685 AA
2
pMEFvGEL199
956 AA

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Fig. 5

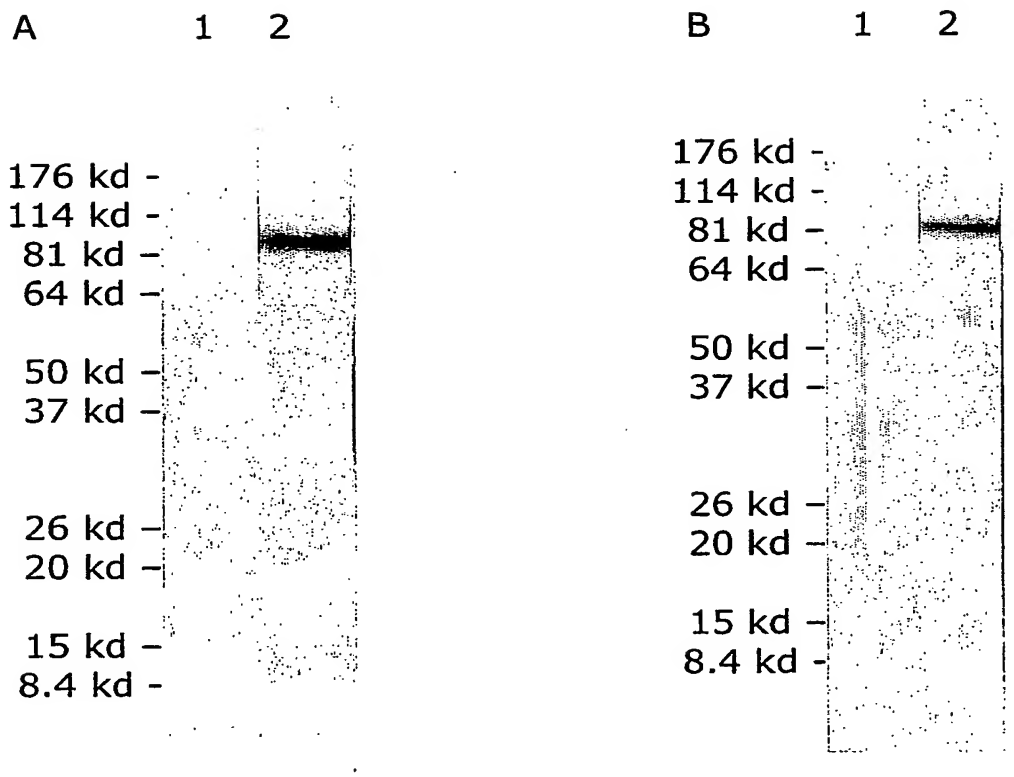
A
1
2
176 kd
114 kd
81 kd
64 kd
50 kd
37 kd
26 kd
20 kd
15 kd
8.4 kd
B
1
2
176 kd
114 kd
81 kd
64 kd
50 kd
37 kd
26 kd
20 kd
15 kd
8.4 kd

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Fig. 6

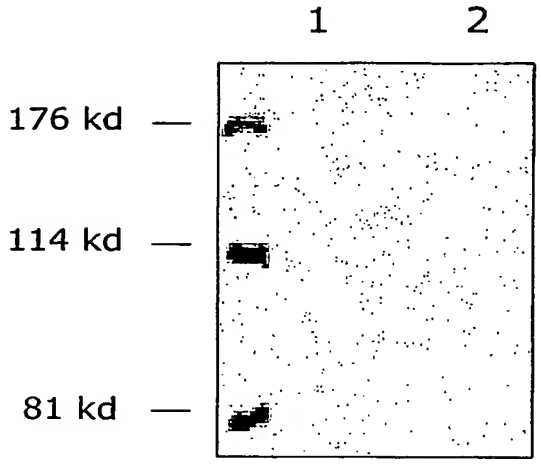

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Fig. 7a

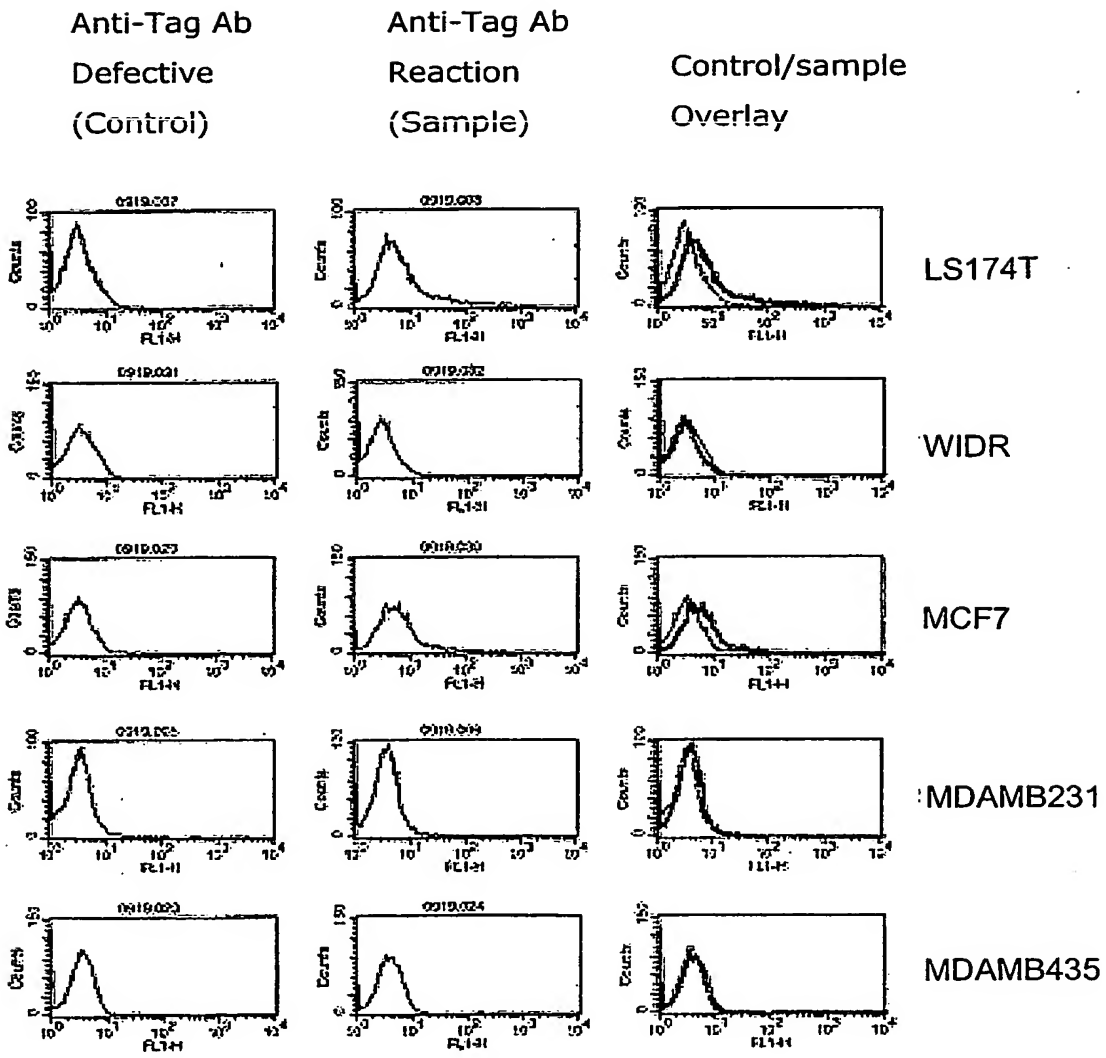
Anti-Tag Ab
Defective
(Control)
Anti-Tag Ab
Reaction
(Sample)
Control/sample
Overlay
LS174T
WIDR
MCF7
MDAMB231
MDAMB435

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Fig. 7b

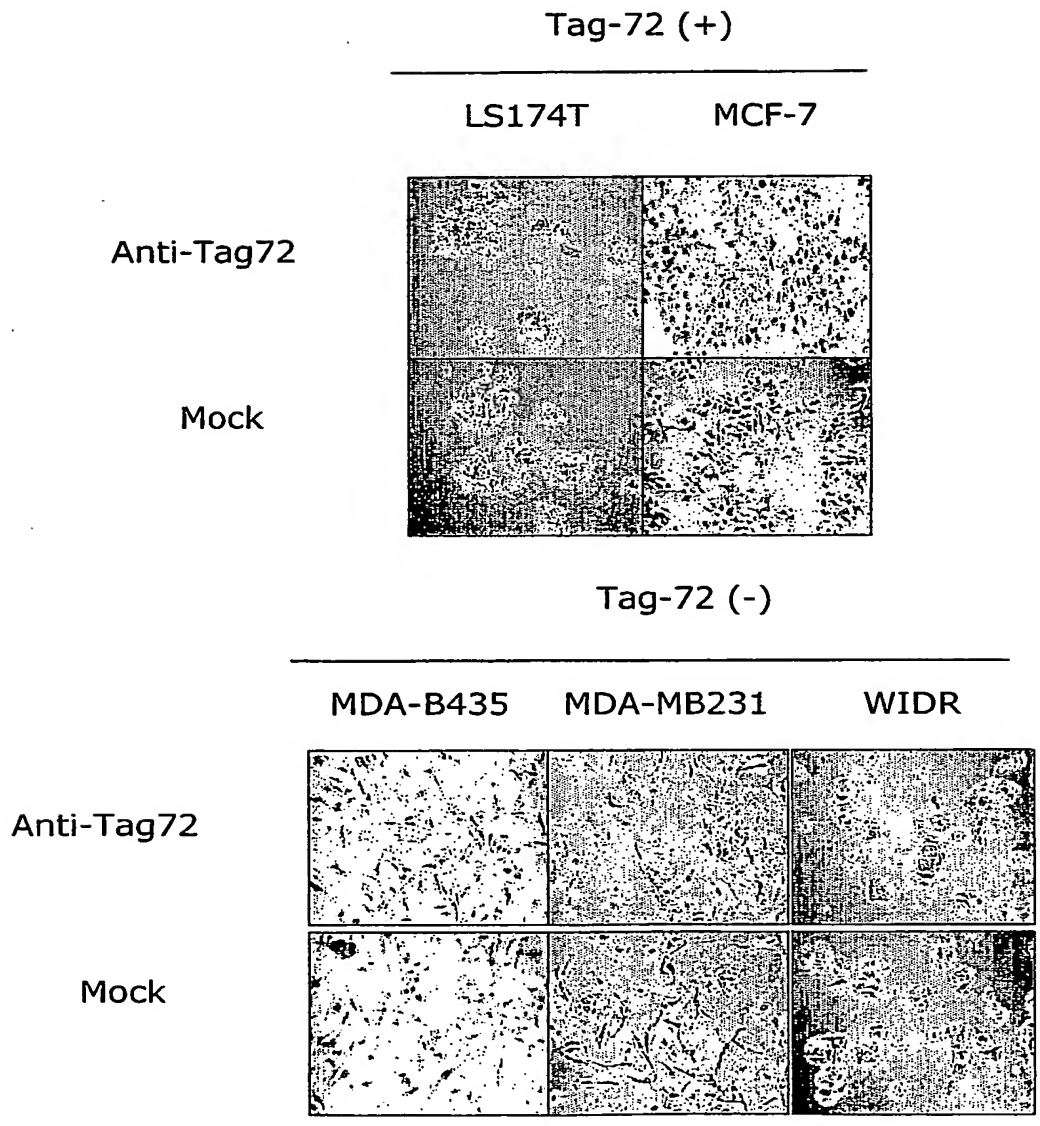

Tag-72 (+)
LS174T
MCF-7
Anti-Tag72
Mock
Tag-72 (-)
MDA-B435
MDA-MB231
WIDR
Anti-Tag72
Mock

Fig. 8

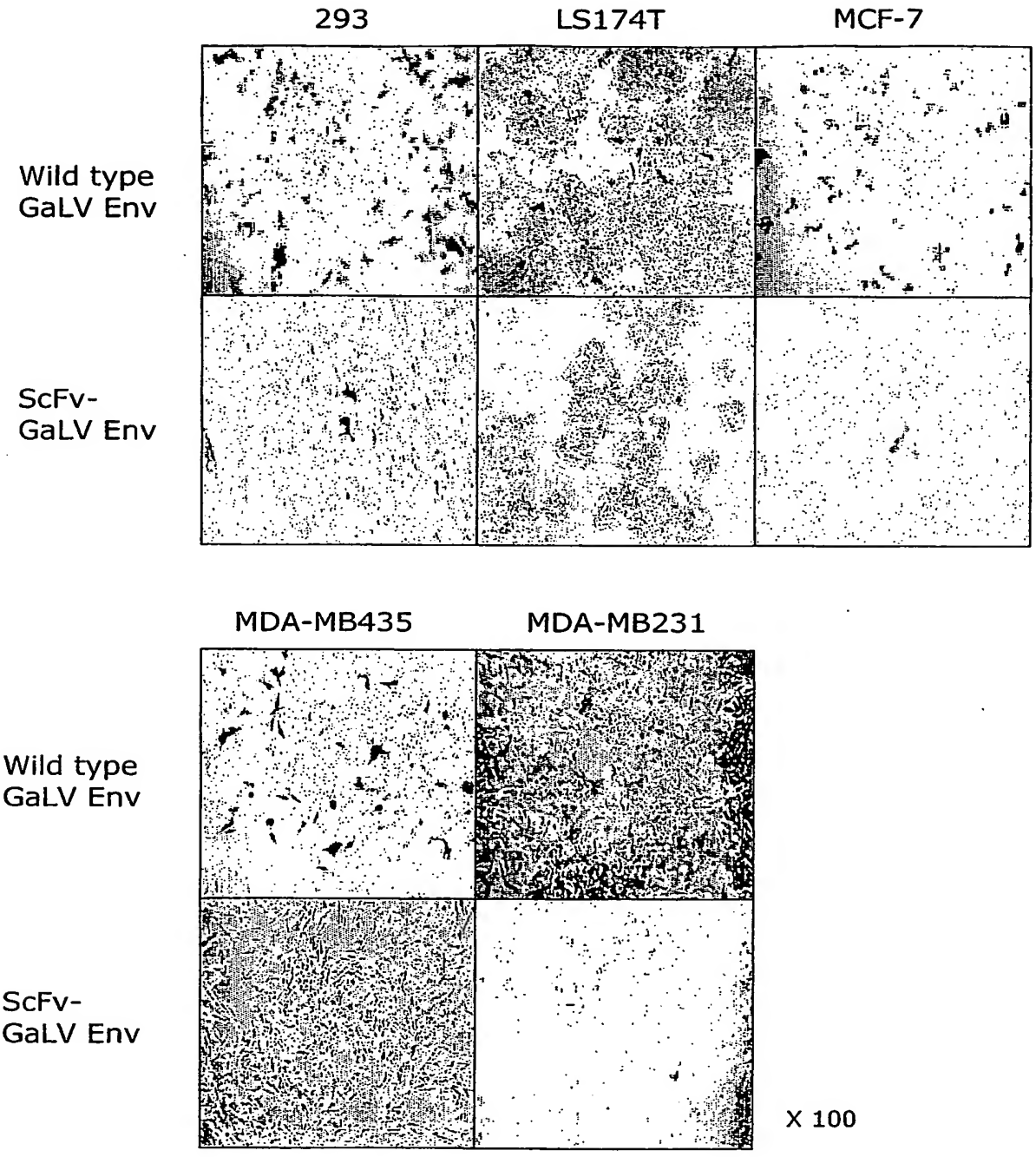
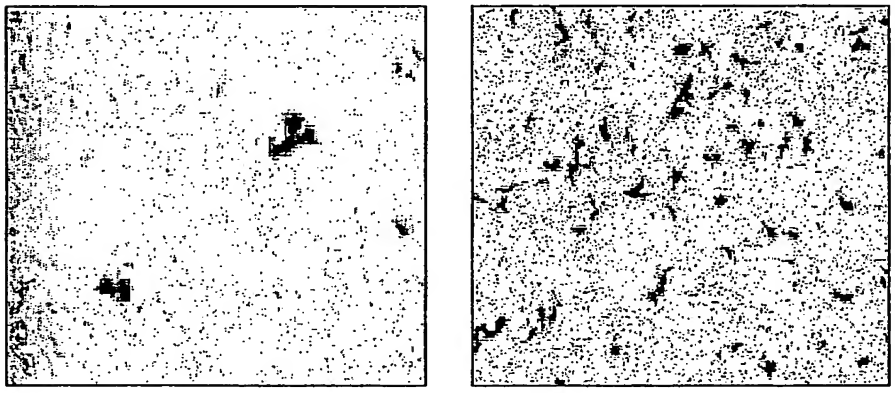

293
LS174T
MCF-7
Wild type GaLV Env
ScFv-GaLV Env
MDA-MB435
MDA-MB231
Wild type GaLV Env
ScFv-GaLV Env
X 100

Fig. 9

GP293/ScFv-GaLV Env expression packaging cells

GP293/Wild-type GaLV Env expression packaging cells



X 100

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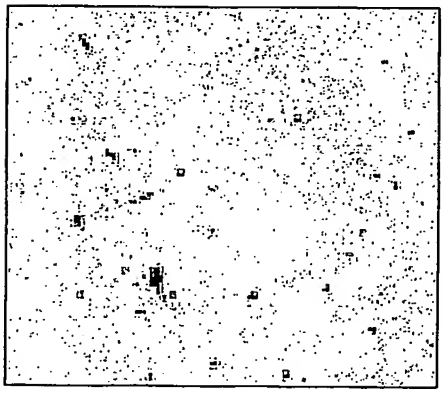
Fig. 10

GP293/ScFv-GaLV Env expression packaging cells



GP293/Wild-type GaLV Env expression packaging cells

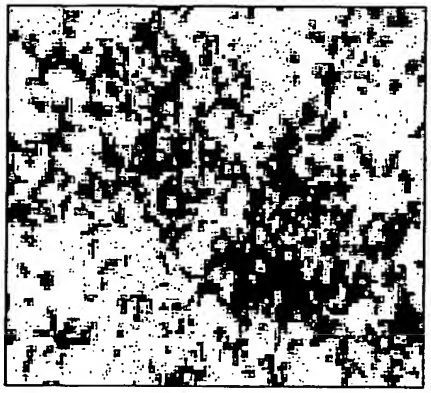


Fig. 11a

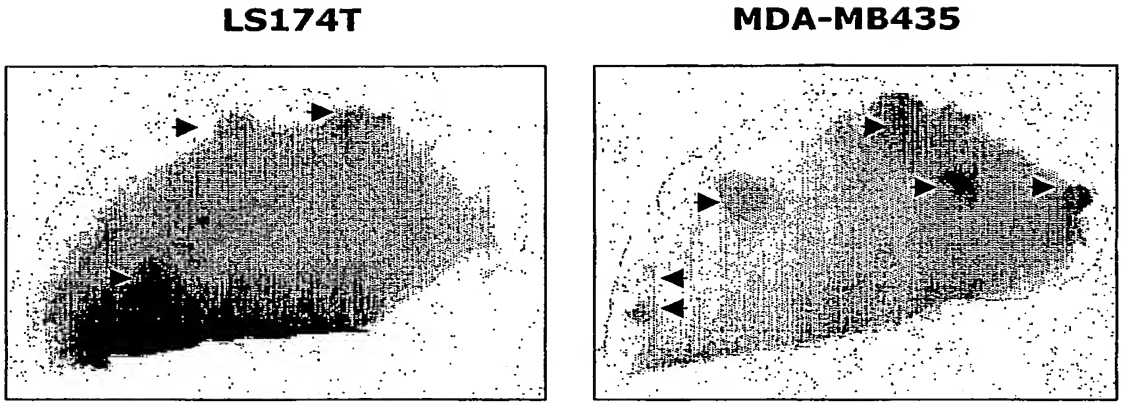


Fig. 11b

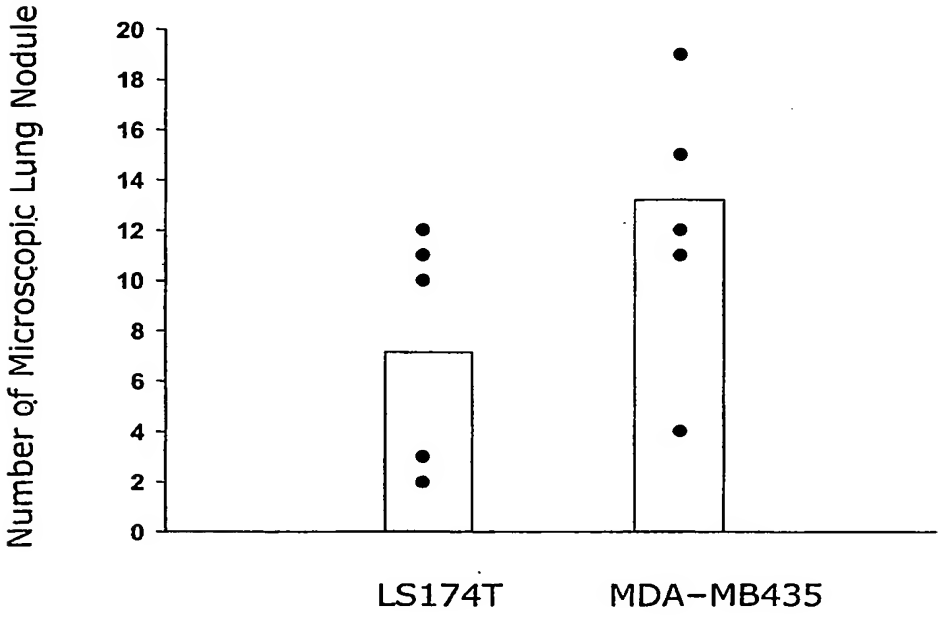


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Fig. 12a

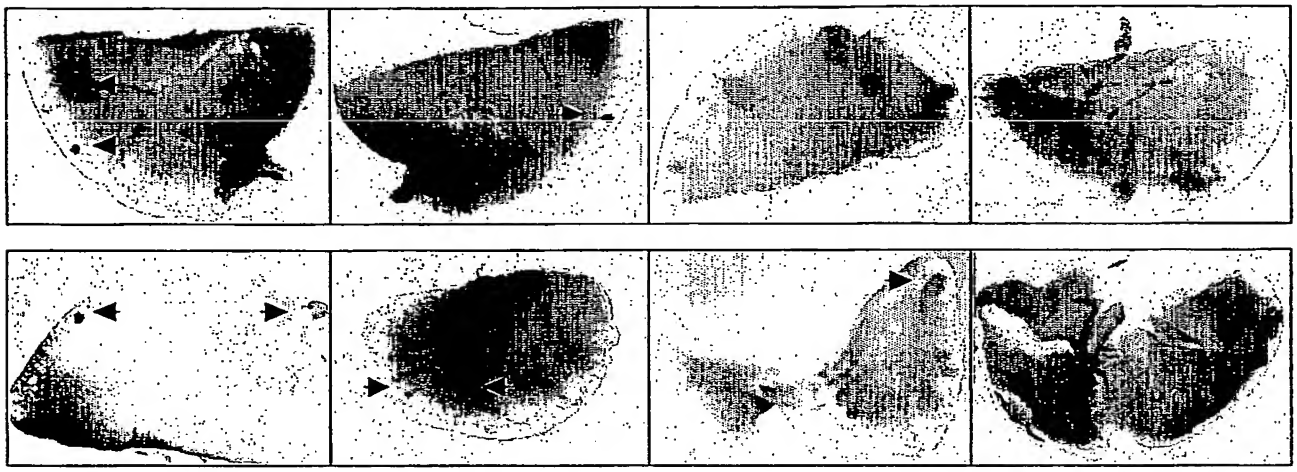
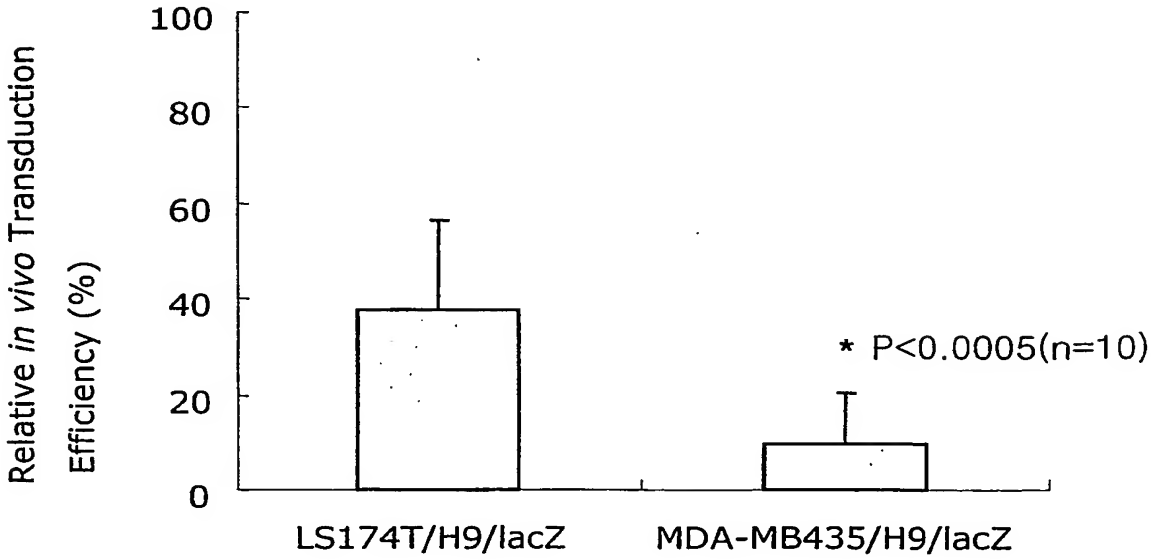
Fig. 12b